

|  |   |
|--|---|
| <p>Petrov, A. Z., Katoriadov, V. R., and Abdullin, V. N.<br/>THE CLASSIFICATION OF GRAVITATIONAL FIELDS<br/>OF GENERAL TYPE BY GROUPS OF MOTIONS, I<br/>(Klassifikatsiya Polya Tyagoteniya Obobchego vida po<br/>Gruppen Dvizhenii, I). Apr 61 [16]p. 15 refs.<br/>RTS 1754.<br/>Order from OTS or SLA \$1.60                    61-19703</p> <p>Trans. of Izvestiya Vysashykh Uchebnykh Zavedeniy<br/>Matematika (USSR) 1959, no. 6(13) p. 118-130.</p> <p>DESCRIPTORS: *Gravity, *Relativity theory,<br/>*Groups (Mathematics), *Motion.</p> <p>A survey.</p> <p>(Physics--Theoretical, TT, v. 6, no. 1)</p> | <p>61-19703</p> <p>I. Petrov, A. Z.<br/>II. Katoriadov, V. R.<br/>III. Abdullin, V. N.<br/>IV. RTS-1754<br/>V. Department of Scientific<br/>and Industrial Research<br/>(Or. Brit.)</p> <p>161816</p> <p>Office of Technical Services</p> |
|--|---|

|  |   |
|--|---|
| <p>Sul'din, A. V.<br/>WIENER'S MEASURE AND ITS APPLICATIONS TO<br/>APPROXIMATION METHODS, PT. I. [1961] [26p].<br/>4 refs.<br/>Order from OTS or SLA \$2.60      61-14925</p> <p>Trans. of Izvestiya Vysokikh Uchebnykh Zavedeniy.<br/>Matematika (USSR) 1959, no. 6(13) p. 145-158.</p> <p>DESCRIPTORS: *Measure theory, Numerical analysis,<br/>Integration.</p> <p>(Mathematics, TT, v. 6, no. 1)</p> | <p>61-14925</p> <p>I. Title: Wiener's measure<br/>I. Sul'din, A. V.</p> <p>161760</p> <p>Office of Technical Services</p> |
|--|---|

On the Problem of Stability of Relay Systems  
for Automatic Control, by Yu. I. Alimov.

RUSSIAN, per, Iz Vysashikh Ucheb Zaved, Mat,  
No 1, 1960, pp 3-10. 9087322

NASA TT F-8140

Sci

185, 915

6 Mar 62

US GOV'T ONLY

Qualitative Investigation of the  
Trajectories of Difference Equations  
Near a Fixed Point, by A. M. Panov,  
4 pp.

RUSSIAN, per, Izvestija Vysashikh  
Uchebnikh Zayazdanii, Matematika,  
1960, No 1, pp 166-174.

ARS Journal  
Vol XXXI, No 5  
May 1961  
*deci. phys.* 192, 317

|  |   |
|--|---|
| <p>Cherkasov, I. D.<br/>INVERSION OF INTEGRO-DIFFERENTIAL OPERA-<br/>TORS USING THE GREEN'S FUNCTION. [1960] 16p.<br/>12 refs.<br/>Order from MDF \$8.50<br/>MDF C-124</p> <p>Trans. of Izvestiya Vysshikh Uchebnykh Zavedeniy. Matematika (USSR) 1960, no. 2(15)<br/>p. 223-235.</p> <p>148,612</p> | <p>61-12544</p> <p>1. Operators(Mathematics)--<br/>Theory<br/>2. Title: Green functions<br/>I . Cherkasov, I. D.<br/>II . MDF C-124<br/>III . Friedman, Morris D.,<br/>Inc., West Newton, Mass.</p> |
| <p>Office of Technical Services</p>  |   |

The Equivalence of Certain Homological Determinations  
in Topology, by M. F. Bokshtein, 25 pp. POST EDITED

RUSSIAN, per, Iz Vyssh Ucheb Zaved, Matematika,  
No 3(16), 1960, pp 62-80. 9694938

FTD-MT-63-348  
NO GOV'T USE ONLY

Sci  
Oct 64

268,099

Transformative Semigroups, by V. V. Wagner, 15 pp.  
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Matemat,  
No 4(17), 1960, pp 36-48.  
Amer Math Soc

Sci - Math  
May 64

258,304

Simultaneous Approximation of Functions and  
Their Derivatives on the Whole Real Axis,  
by A. Timan,  
RUSSIAN, per, AN SSSR Izv., Seriya Matematicheskaya,  
Vol 24, 1960, pp 421-430.  
Dept of Navy APL/JHU T-624

Sci-Math  
Jan 71

On the Number of Classes of Ideals of a Real  
Quadratic Field, by I. Sh. Slavutskiy, 6 pp.  
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Matemat,  
No 4 (17), 1960, pp 173-177.

MDF S-174  
9093150  
148 69 !

Sci  
Nov 61

|   |   |
|---|---|
| <p>Chichkin, Ye. S.<br/>ON ONE NON-OscILLATIONAL THEOREM FOR<br/>THE LINEAR SELF-CONJUGATED DIFFERENTIAL<br/>EQUATION OF FOURTH ORDER. [1960] [9]p. 4 refs<br/>Order from LC or SLA m\$1.80, ph\$1.80 61-10636</p> <p>Trans. of Izvestiya Vysashikh Uchebnykh Zavedeniy,<br/>Matematika (USSR) 1960, no. 4(17) p. 206-209.</p> <p>An investigation is made of the equation<br/><math display="block">L[y] = \frac{d^4y}{dx^4} + \frac{d}{dx} \left( p(x) \frac{dy}{dx} \right) + q(x)y = 0</math> with the continuous coefficients <math>p(x)</math> and <math>q(x)</math> in the interval <math>[a, b]</math>.</p> <p>(Mathematics, TT, v. 5, no. 8)</p> | <p>61-10636</p> <p>1. Differential equations--<br/>Analysis<br/>I. Chichkin, Ye. S.</p> <p>151457</p> <p>Office of Technical Services</p> |
|---|---|

Automorphisms of Semigroups of Topological Mappings,  
by L. M. Gluskin, 12 pp.  
RUSSIAN, per, Iz Vysshikh Ucheb M Zaved Matemat,  
No 6(19), 1960, pp 62-73.  
Amer Math Soc

Sci - Math  
May 64

258,306

(NY-6491)

The Problem of the Existence of Optimal  
Trajectories of Nonlinear Systems, by F. M.  
Kirillova, 20 pp.

~~RUSSIAN, per, Iz Vyashikh Ucheb Zaved,~~  
~~Matemat, No 2, Mar-Apr 1961, pp 41-53.~~

JPRS 9644

Sci - Math  
Aug 61

16<sup>3</sup>,100

Boundary Problem for Linear Integro-Differential Equations of Volterra Type for Decaying Boundary Conditions, by Yu. K. Lando, 10 pp.

RUSSELAN, por, Iz Vsesoiuzn. Ucheb. Zaved. Material., No 3(22), 1961, pp 56-65.

MDF L-140  
9092970

Sci.  
Nov 61

173, 326

The Circular Motions of Coupled Pendulums. II,  
by V. S. Serebryakova, Ye. A. Bartashin, X 9 pp.

RUSSIAN, por, Iz Vysshikh Ucheb Zaved, Matemat,  
No 4, 1961, pp 112-118. 9667799

FID-TT-62-1069

Sci-Math  
Mar 63

423,670

An Analogue of the Theorem of Laurent Schwartz,  
by G. E. Silov,  
RUSSIAN, per, Izv. VUZ Matematika, No 4, (23),  
1961, pp 137-147.  
Am Math Soc  
Ser 2, Vol 60

May 67

326,182

On the Solution of Equations in Functional  
Derivatives, by A. N. Serstnev,  
RUSSIAN, per, Izv. VUZ Matematika, No 6,(25),  
1961, pp 155-168.  
Am Math Soc  
Vol LIV, Ser 2

Jan 67

316,790

(NY-1880)

SOME PROBLEMS IN THE THEORY OF OPTIMUM  
CONTROL, BY F. M. KIRILLOVA, 21 PP.

RUSSIAN, PER, IZ VYSS UCHEB ZAVED, MATEMATIKA,  
NO 3, 1962, PP 48-58.

JPRS 14826

CIA/PDD XX-16-52  
Not Releasable to Foreign NTIs  
USIB Internal Use Only

SCI - PHYS

AUG 62

207,080

An Indirect Control System, by R. A.  
Spasskiy, 10 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zayed Matemat,  
No 4 (29), 1962.

JPRS 15600

Sci .. Electron  
Oct 62

215,604

Coordinate Spaces and Infinite Systems of Linear  
Equations. II, by Y. I. Gribanov, 13 pp.  
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Matemat,  
No 1 (32), 1963, pp 66-74. 9692085  
DDC RSIC-140

Sci - Math & Data Process  
Apr 64

253,311

|  |  |
|--|--|
| <p>Sarkova, N. V.<br/>THE APPROXIMATE SOLUTION, BY THE METHOD<br/>OF OSCILLATING FUNCTIONS, OF INTEGRO-DIF-<br/>FERENTIAL EQUATIONS AND DIFFERENTIAL EQUA-<br/>TIONS WITH LAGGING ARGUMENT. [1963] [18p]<br/>5refs<br/>Order from OTS or SLA \$1.60                    63-20188</p> <p>Trans. of <u>Izvestiya Vysshikh Uchebnykh Zavedenii.</u><br/><u>Matematika</u> (USSR) 1963, no. 1(32) p. 158-168.</p> <p>DESCRIPTORS: *Numerical methods and procedures,<br/>*Functions, *Integral equations, Integration, *Dif-<br/>ferential equations, Time-lag theory, Numerical analy-<br/>sis, Errors.</p> <p>A method is presented which extends the application of<br/>the method of oscillating functions to the solution of<br/>integro-differential equations with lagging argument<br/>(Mathematics, TT, v. 10, no. 10)                    (over)</p> | <p>63-20188</p> <p>1. Title: Oscillating functions<br/>I. Sarkova, N. V.</p> <p>Office of Technical Services</p> |
|--|--|

Yakubov, I. T.  
AN ASYMPTOTIC EXPRESSION FOR THE GENERALIZED LAGUERRE POLYNOMIALS. [1963] [7]p, 7 refs.  
Order from OTS or SLA \$1.10 63-18371

Trans. of *Izvestiya Vysshikh Uchebnykh Zavedenii. Matematika* (USSR) 1963, no. 1(32) p. 169-171.

DESCRIPTORS: \*Polynomials, Numerical analysis.

A new asymptotic expression is presented for the generalized Laguerre polynomials. The expression is derived by studying a particular solution of the Schrodinger equation for large values of the index.  
(Translator)

(Mathematics, TT, v. 10, no. 10)

63-18371

1. Title: Schrodinger equation  
I. Yakubov, I. T.

Office of Technical Services

Approximate Solution of Differential Equations With  
Deviating Arguments, by N. V. Sharkova, 17 pp.  
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Mate, No 3,  
1963, pp 173-184. 9692126  
FTD-TT-63-1034

Sci - Math & Data Proc  
Apr 64

253,420

Inequalities for Harmonic Polynomials, by  
Ya. S. Bugrov.  
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Matemat,  
No 5, 1963, pp 12-23.  
Navy Tr 3816  
APL T988

Sci - Math & Data Proces  
jun 64

261,197

On the Method of Successive Approximations, by  
Ye. P. Glebov, A. A. Potapenko.  
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Matemat,  
No 5, 1963, pp 39-42.  
NASA TT R-8739

Sci-Math  
Jul 64  
**U.S. GOVERNMENT ONLY**

**262,888**

On A Differential-functional Equations in  
Partial Derivatives, by V. N. Petukhov.  
RUSSIAN, per, Iz VUZ, Matemat, No 1(38), 1964,  
pp 96-99.  
Rept of Navy Tr 4337 /AFL No T-1480

Sci - Math  
Nov 65                    292,907

Two Theorems of the Theory of a Linear  
Homogeneous Differential Equation, by  
F. A. Mikhailov.  
RUSSIAN, per, Iz Vyashikh Ucheb Zaved Matemat,  
No 2, 1964, pp 120-126.  
Navy Tr 3879/APL T1062

Sci - Phys  
Sep 64

266,291

Criteria for the boundedness of solutions  
of Systems of Ordinary Differential Equa-  
tions, by I. M. Vlasov.  
RUSSIA, per, Iz VUZ, Matemat., No 3(40),  
1964, pp 1964, pp 39-42,  
Dept of Navy Nr 4351/NPL No T-1515

Sci - Math  
Dec 65

292,780

by L. P. Lebedeva,  
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Matemat, Vol XL,  
No 3, 1964, pp 75-83.  
Dept of Navy 4117/APL-JHU T 1278

Sci - Phys  
Jun 65

279,613

Some Problems in the Theory of Approximating  
Solutions of Differential-operator Equations in  
Hilbert Space, by L. Kh. Liberman.  
RUSSIAN, per, Izvestiya VUZ, Matematika, No 3(40)  
1964, pp 88-92.  
Dept Navy APL/JHU TG230-T508  
Navy tr S190

Sci/Mathematical Sci  
Mar 67

318,529

On the Absence of Periodic Solutions Taking the  
Value  $x = 0$  in a Class of Differential Equations of  
the Type  $x + x = F(x, x)$ , by G. E. Popov.  
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Matemat, No 3,  
1964, pp 120-122.  
Navy 4004/APL T-1181

Sci-Math  
Feb 65

274,209

Some Properties of the Cauchy Function,  
by R. G. Aliev.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh  
Zavedenii. Matematika, No 4, 1964, pp 9-11.  
NTC-71-14945-12A

*Navy APL/JHU T-632*

Feb 72

On Summation of Sequences, by B. I. Golubov.  
RUSSIAN, per, Izv VUZ. Matematika, No 4(41), 1964,  
pp 47-55.  
Dept of Navy APL/JHU Tr CLB-3 T-646

April 71

Dynamic Problem of the Theory of  
Elasticity for a Plate From Transversal  
Isotropic Material, by V. I. Makhovikov,  
12 pp.

RUSSIAN, per, Iz Vyssh Ucheb Zaved  
date, No 4, 1964, pp 111-117. 9699402  
TID-TI-65-874

Sci - Phys  
Feb 66

294,765

A Method of Approximating Differentiable Functions  
by Trigonometric Polynomials, by N. M. Pavlovskii,  
RUSSIAN, par, VME, Inv., Matematika, No 4(41),  
1964, pp 118-125,  
Deyt of Navy API/JHU T-634

Sci-Math  
Jan 71

The Solution of Two Problems in Applied  
Mathematics by Means of Special Approximating  
Polynomials, by I. I. Eterman.  
RUSSIAN, per, Izvestiya Vysshikh  
Uchebykh Zavedenii. Matematika, No 4,  
1964, pp 169-176.  
NTC 72-10425-12A  
DEPT OF NAVY JHU/APL CLS-3 T-636

Apr 72

287,331

On the Possible Form of a General  
Solution to Equilibrium Equations in  
Curvilinear Coordinates, by V. N. Ionov,  
G. A. Vvedenskiy, 10 pp.  
RUSSIAN, per, Iz Vyssh Ucheb Zaved,  
Matemat, No 6, 1964, pp 59-66. 9698950  
TID-TT-65-931

Sci - Math & Data  
Feb 66

296,390

Cavitational Flow Around a Plane Plate, by  
A. G. Terent'yev.  
RUSSIAN, per, Izvestiya Vyssh Ucheb Zaved,  
Matematika, No 6, 1964, pp 159-167.  
\*FTD TT-63-1070

Sci-Phys  
DII 65

Gravitational Flow Past a Flat Plate, by  
A. G. Terent'yev, 11 pp.  
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Matemat,  
No 6, 1964, pp 159-167. 9698950  
FTD-TT-65-931

Sci - Math & Data Proc  
Feb 66

296,391

Iz. V.V.Z. Neft i GAZ

|   |   |
|---|---|
| <p>Galuzo, Yu. V.<br/>ON THE POSSIBILITY OF THE QUANTITATIVE DETERMINATION OF BORON IN ROCKS BY THE NEUTRON GAMMA METHOD. [1963] [6]p.<br/>Order from OTS or SLA \$1.10 63-16989</p> <p>Trans. of <u>Izvestiya Vysshikh Uchebnykh Zavedenii, Neft' i Gaz.</u> (USSR) 1958, v. 1, no. 1, p. 41-44.</p> <p>DESCRIPTORS: *Rock (Geology), *Boron, Neutrons, Gamma rays, *Radiometers, Radioactivation analysis.</p> <p>(Earth Sciences--Geology, TT, v. 10, no. 8)</p> | <p>63-16989</p> <p>I. Galuzo, Yu. V.</p> <p>Office of Technical Services</p>  |
|---|---|

Filtration Towards a Horizontal Wall of Finite Length in a Layer of Finite Thickness, by V. P. Merkulov, 11 pp.

RUSSIAN, per, Iz Vysokikh Ucheb Zaved Neft i Gas,  
No 1, 1958, pp 73-80.

SLA 60-10988

Sci  
Jun 60  
Vol III, No 5

119,116

On the Parameters of Similitude at the Displacement  
of One Liquid by Another and on the Influence of  
Flow-Rate on the Petroleum Recovery, by S. N.  
Buzinov, 6 pp.

RUSSIAN, per, Iz Vysokikh Ucheb Zaved Neft i Gaz,  
No 1, 1958, pp 61-85.

SLA 60-10989

119,165

Sci  
Jan 60  
Vol XXI, No 5

A New Method for the Determination of the Effect of  
the Weight of the Bit and Its Speed on Drilling Rate, by  
V. G. Yarov, 4 pp.

RUSSIAN, per, Iz Vysokikh Nicheb Zaved Neft i Gas,  
Vol II, No 3, 1959, pp 51-54.

ATB-41134R

Sci  
Jun 60  
Vol III, No 5

119,141

Development of Special Grades of Carboxymethylcellulose (CMC) to Improve the Quality of Drilling (Clay) Muds and Improvement in the Technology of their Production, by K. F. Zhigach, M. Z. Pinkel'shtein, T. A. Tibillova, 9 pp.

RUSSIAN, per, Izvestiya Vsesokhikh Uchebnykh Zavedeniy Neft i Gas, No 6, 1958, pp 31-38.

AT&T-4813CR

Sci - Engr  
Sep 59  
Vol 2, No 1

97899

On the Problem of Production of Synthetic Fuels,  
by M. G. Mamedli, M. S. Aliyev, 6 pp. UNCL

RUSSIAN, per., Iz Vysashikh Uchetnykh Zavedeniy,  
Neft i Gaz, No 6, 1958, pp 73-76.

AF 1255883

USSR  
Econ  
Sci - Fuels  
Aug 59

93, 387

The Study of the Lithology of Rocks Forming Borehole Profiles From Self-Potential Data, 6 pp.

RUSSIAN, por., Iz Vysshikh Uchebnykh Zavedeniy, Neft' i Gaz, No 7, 1958, pp 11-15.

AT&T 49130R

AT&T 13-101

Sci  
Dec 59  
Vol 2, No 5

103,645

|   |  |
|---|--|
| Korneev, Y. and Skoblo, A.<br>THE EFFECT OF PRESSURE ON RELATIVE VOLA-<br>TILITY IN PROCESSES OF EXTRACTIVE DISTIL-<br>LATION. [1961] 9p.<br>Order from ATS \$10.75 | 62-12350<br>I. Korneev, Y.<br>II. Skoblo, A.<br>III. ATS-41N57R<br>IV. Associated Technical<br>Services, Inc.,<br>East Orange, N. J. |
| Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.<br>Neft' i Gaz (USSR) 1958, v. 1, no. 7, p. 57-65.  |  |
| DESCRIPTORS: Pressure, Evaporation, *Petroleum.   |  |
| RT-3304   |  |
| (Engineering--Chemical, TT, v. 7, no. 6)  |  |
| Office of Technical Services  |  |

|   |  |
|---|--|
| <p>Pinogenov, I. S.<br/>THE EFFECT OF MAJOR FACTORS ON THE<br/>HARDNESS OF ARGILLACEOUS CARBONATE<br/>ROCKS. [1961] 5p.<br/>Order from ATS \$7.55</p> <p>ATS-29NS2R</p> <p>Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.<br/>Neft i Gaz (USSR) 1958, v. 1, no. 8, p. 41-46.</p> <p>DESCRIPTORS: *Rock, Hardness, Clays.</p> <p>(Earth Sciences--Geology, TT, v. 6, no. 6)</p> | <p>61-25056</p> <p>I. Pinogenov, I. S.<br/>II. ATS-29NS2R<br/>III. Associated Technical<br/>Services, Inc., East<br/>Orange, N. J.</p> <p>176720</p> <p>Office of Technical Services</p> |
|---|--|

On the Effect of the Bright Strip Upon the  
Strength of the Weld Metal in Resistance  
Butt Welding, by A. M. Dzhafarov. Ural

RUBSHAN, per, Iz VUZ: - Metal' Gosp, No 6,  
1950, pp 115-119.

DSIR LIU RTS 1264

(12a. 6a.) <sup>LH</sup> 60-15730  
SLP

Sci - Engr; Min/Met  
Feb 60

107210

Sep 17, 1958.

"An Inter-Vuz Scientific-Technical Conference  
[On New Types of Motor Fuels]" (unsigned article);  
Baku, Investiya Vysshikh Uchebnykh Zavedeniy - Neft'  
i Gaz, No 7, Jul 58, p 16.

SIR No 17 (7)

Application of the pH Method for Differentiation of  
Carbonate Intervals in Oil Fields, by Y. M. Mikroshen-  
chenko, 7 pp.

RUSSIAN, Iz Vysokikh Uchebnykh Zavedeniy, Neft' i  
Gaz, No 8, 1958, pp 17-23.

ATS 50130R  
FTS-RJ 1t08

Sci  
Dec 59  
Vol 2, No 5

103, 807

|   |   |
|---|---|
| <p>Polyakov, G. G.<br/>EXPERIMENTAL STUDIES OF PERFORATED CASED<br/>WELLS USING A RADIAL MODEL WITH A HOMO-<br/>GENEOUS POROUS MEDIUM. [1961] 7p.<br/>Order from ATS \$8.60      ATS-53N54R</p> <p>Trans. of Izvestiya Vsesoyuznogo Uchebno-nykh Zavedenii.<br/>Neft' i Gaz (USSR) 1958, v. 1, no. 10, p. 63-68.</p> <p>DESCRIPTORS: *Porous materials, *Walls, *Petro-<br/>leum.</p> <p>(Earth Sciences--Geology, TT, v. 7, no. 4)</p> | <p>61-25623</p> <p>I. Polyakov, G. G.<br/>II. ATS-53N54R<br/>III. Associated Technical<br/>Services, Inc., East<br/>Orange, N. J.</p> <p>Office of Technical Services</p> |
|---|---|

Certain Theoretical Aspects of the Origin of  
Petroleum and the Formation of Oil Deposits,  
by S. M. Apresov, 3 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Neft' i  
Gaz, Vol III, No 3, 1959, pp 3-14.

AT&T-08M39R

Sov.  
Feb 62  
Vol III, No 11

182, 81

Dynamics of Vertical Displacements in Three  
Cutter Bits with Impact-Action Teeth, by N.  
Gazarov. UHCL

RUSSLIN, ser. Iz Vyschikh Ucheb Zaved., Neft i  
Gaz, Vol. IX, 1959, pp 27-33.

AMIS RJ-1755

Sci - Engr  
Dec 59

103,495

A Study of the Effect of the Chief Natural Factors on the Hardness of Sandstones and Siltstones, by I. S. Finogenov. UNCL

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Neft i Gaz, No 2, 1959, pp 47-52.

ATS RJ-1780

Sci - Geophys

103,506

Dec 59

Effect of Pressure on the Capillary Displacement of a Hydrocarbon Liquid From a Porous Medium by Water; by A. A. Kocheshkov.  
UNCL

RUSSIAN, per, Izvest Vysshikh Ucheb Zaved,  
Neft i Gaz, No 2, 1959, pp 59-65.

ATS RJ-1822

Phys  
Sci. - Geophys  
Jan 60

104,574

Mamedli, M. G. and Aliev, M. S.  
SYNTHETIC FUELS PRODUCTION TECHNOLOGY  
(K Voprosu o Tekhnologii Proizvodstva Sinteticheskikh  
Topliv). [1961] [12]p. 5 refs. AF 1419499.  
Order from OTS or SLA \$1.60 61-28351

Trans. of [Izvestiya Vysshikh Uchebnykh Zavedenii].  
Neft' i Gaz (USSR) 1959 [v. 2] no. 2, p. 67-74.

DESCRIPTORS: Industrial production, Chemical analysis,  
sis, \*Jet engine fuels, Fractionation, \*Hydrocarbons,  
Decomposition, Aluminum compounds, Chlorides,  
Catalysis, Catalysts, Distilling plants, Temperature,  
Pyrolysis, \*Fuels.

Tests showed that it is possible to produce high quality  
T-1 jet fuel from the middle fractions of light thermal  
cracking products. The established optimum conditions  
for catalytic conversion of the hydrocarbons contained  
(Engineering--Chemical, TT, v. 7, no. 7) (over)

61-28351

I. Title: T-1 fuel  
I. Mamedli, M. G.  
II. Aliev, M. S.  
III. AF-1 419 499

Office of Technical Services

|  |  |
|--|--|
| <p>Litvinov, S. Ya. and Sarkisov, I. K.<br/>CONTRIBUTION TO THE THEORY OF USING PIPE<br/>AS AN ELECTRICAL COMMUNICATION CHANNEL.<br/>[1963] 8p.<br/>Order from ATS \$9.65</p> <p>ATS-04Q68R</p> <p>Trans. of <u>Izvestiya Vysshikh Uchebnykh Zavedenii.</u><br/><u>Neft' i Gaz (USSR)</u> 1959, v. 2, no. 2, p. 99-105.</p> <p>DESCRIPTORS: *Pipes, Transmission lines, Communication equipment, Theory, Ducts.</p> <p>(Engineering--Electrical, TT, v. 10, no. 1)</p> | <p>63-17118</p> <p>I. Litvinov, S. Ya.<br/>II. Sarkisov, I. K.<br/>III. ATS-04Q68R<br/>IV. Associated Technical Services, Inc.,<br/>East Orange, N. J.</p> <p>Office of Technical Services</p> |
|--|--|

Relationship Between Rotational Speed and  
Weight on Bit in Turbodrilling Providing  
Efficient Rock Disintegration, by V. S. Fedorov.  
UECL

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Naft. i.  
Gaz, No 3, 1959, pp 39-41.

AMS RJ-1777

103,505

Sci .. Engr  
Dec 59

A Hydraulic Investigation of Sand Invasion  
During Multistage Completion, by G. S. Gasaryan.  
UHOL

RUSSIAN, per, Iz Vysshikh Ucheb Zaved., Naft i Gaz,  
No 3, 1959, pp 63-65.

ATS RJ-1801

Sci - Engt  
Dec 59

103, 493

Quantitative Evaluation of Frictional Force  
During Movement of the Tool in a Deviated Hole,  
by M. M. Aleksandrov. UNCL

RUSSIAN, per, Iz Vysshikh Uchebn Zaved, Neft i  
Gaz, Vol II, No 4, 1959, pp 41-50.

ATS RJ-1773

Sci - Engr

103,503

Dec 59

<sup>ss</sup>  
Crossflow of Fluids Between Two Adjacent Beds of  
Different Permeability, by G. A. Mansarov, 8 p.

RUSSIAN, par, Iz Vysashikh Ucheb-Zaved, Nefz i Gaz,  
1959, Vol II, No 4, pp 49-55.

Sci  
Apr 60  
Vol III, No 2

AT&T-08L35R

P-5-2160-2

113,585

Relation Between the Rate of Combustion of Individual Hydrocarbons and Ethers and Their Structure, by V. V. Makarenkov, A. P. Meshcheryakov, et al, 111

RUSSIAN, per, Iz Vysashikh Ucheb Zaved Neft' i Gaz, No 4, 1959, pp 71-78.

AFIC MOL-577/III

Sci - Chem

Oct 60

128,131

Some Problems Concerning the Dynamic Penetration  
of the Teeth of a Three-Cutter Bit into Rock,  
by R. A. Badalov, 7 p.

RUSSIAN, per, Iz Vysashikh Uchet Zaved Neft i Gaz  
1959, Vol II, No 5, pp 31-36.

AT&T-85L34R

Sci  
Apr 60  
Vol III, No 2

III, 671

Malofeev, G. E.  
HEAT LOSSES TO OVERLYING AND UNDERLYING  
ROCK WHEN HOT WATER IS INJECTED INTO A  
LAYER (Poteri Tepla v Krovlyu i Podoshvu pri  
Zakachke v Plast Goryachel Vody). [1962] [20]p.  
(foreign text included) 4 refs.  
Order from OTS or SLA \$1.60

63-10211

Trans. of Izvestiya Vysashikh Uchebnykh Zavedenii.  
Neft' i Gaz (USSR) 1959, v. 2, no. 5, p. 37-43.

DESCRIPTORS: Thermal diffusion, Thermal utilization,  
Oils, Rock(Geology), \*Heat transfer, Numerical  
analysis, \*Water injection, \*Petroleum, Sources.

An experimental relationship between the coefficient  
of effective utilization of heat  $\eta_{heat}$  and the parameter  
 $F_0$  for plane-linear filtration was found. This coef-  
ficient decreases with time. The greater the thickness  
(Earth Sciences--Geology, TT, v. 10, no. 1) (over)

63-10211

I. Malofeev, G. E.

Office of Technical Services

Slim Bits, by S. B. Godzhayev, 8 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i Gaz, Vol II, No 5, 1959, pp 75-78.

R  
ATS-88L35

Sci

Jun 60

118, 296

ATS-2106-2

Calculation of the Rate of Infiltration of Water  
in Soil Previously Containing Air, by Chen Chzhun-  
Syan,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Neft i Gaz,  
Vol II, No 6, 1959, pp 43-51.

ATS 2328-RJ

Sci - Engr

Sep 60

124,909

Determination of Submerged Jet Parameters in  
Hydraulic Bits, by A. K. Kozodoi,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i Gaz,  
Moscow Vol II, No 6, 1959, pp 103-108.

ATS 2299-RJ

Sci - Engr

Sep 60

124, 889

Dating the Origin of Gas Deposit in the Berezansk  
Area of Krasnodar Province, by K.N. Marchenko.  
RUSSIAN, per, Iz V.U.Z. Neft' i Gaz, 1959, vol. 2,  
no. 7, pp. 9-12.  
ATS\_79R78R

ES/Astron  
Aug 66

7  
305,662

The Effect of Certain Vibro-Percussion Tool  
Parameters on Penetration Rate, by E. I. Tagiev,  
A. V. Kichigin,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i  
Gaz, Vol II, No 7, 1959, pp 17-24.

AT&T 2294-RJ

Sci - Engr

Sep 60

124, 887

Approximate Formula for the Maximum Production  
Rate of Water-Free and Gas-Free Oil From a  
Formation Carrying Bottom Water and a Gas Cap, by  
P. M. Shul'ga,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Neft i Gaz,  
Vol II, No 7, 1959, pp 33-40.

ATS 2327-RJ

Sci - Engr

Sep 60

124,908

Second Pressure Restoration Period in a Well  
After Its Shutting-in (With Account of the  
Inflow of Fluid, by E. I. Petrushevskiy,

RUSSIAN, per Iz Vysshikh Ucheb Zaved, Neft i  
Gaz, Vol II, No 7, 1959, pp 41-48.

ATS 2325-RJ

Sci - Engr

Sep 60

124,906

Effect of Temperature on the Rheological Properties  
of Clay Suspensions, by L. D. Gurdzhinyan,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Neft i Gaz,  
Vol II, No 7, 1959, pp 91-95.

ATS 2308-RJ

Sci - Engr

Sep 60

124,896

Communication Channels for Subsurface Telemetering  
in Wells During Drilling and Production, by  
Z. B. El'yashhevich, Yu. V. Grachev,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i Gaz,  
Vol II, No 7, 1959, pp 97-102.

AT&T 2314-RJ

Sci - Engr

Sep 60

124,901

Kasimov, A. F. and Gukasov, N. A.  
ONE APPROXIMATE METHOD SOLVING THE PROB-  
LEM OF THE CONSECUTIVE MOVEMENT OF TWO  
VISCOUS LIQUIDS. [1963] 5p.  
Order from ATS \$5.65                    ATS-94Q67R

Trans. of Izvestiya Vysshikh Uchebn[ykh] Zavedenii,  
Nef'i i Gaz (USSR) 1959, v. 2, no. 7, p. 103-106.

DESCRIPTORS: \*Fluid flow, \*Liquids, Viscosity.

63-17110

- I. Kasimov, A. F.
- II. Gukasov, N. A.
- III. ATS-94Q67R
- IV. Associated Technical Services, Inc., East Orange, N. J.

(Machinery--Transport, TT, v. 10, no. 1)

Office of Technical Services

Tooth Penetration in Rock and the Penetration Rate  
in Drilling With a Percussion Bit, by N. A.  
Gazarov,

RUSSIAN, per, Iz Vysshikh Ucheb. Zaved Neft i Gaz,  
Vol II, No 8, 1959, pp 25, 26.

ATS 2303-IW

Sci - Engr

Neft i Gaz  
T. N. I. E. S. T. M. o. 237

Sep 60

124, 892

12 471

US-14

MOLOKANOV Yu. K., SKOBLO A. I.

Izv. Vysshikh Uchebn. Zaved., Neft' i Gaz, 2, No. 8,

55-61 (1959)

RJ-2466. \$ 10.80 - English

E u r a t o m  
AT&T-2466

Alkylation of Phenol by Olefins in the  
Presence of Boron Trifluoride Dihydrate,  
by L. A. Gilyarovskaya.  
RUSSIAN, per, Izv VUZ Neft i Gaz, No 8,  
1959, pp 63-69.  
NLL Ref: 5828.4F (12920)

Sci-Chem  
Mar 69

377,016

Power Characteristics of Vertical Pneumatic Transport, by K. A. Rannikovich, O. N. Todes, 5 pp.

KUHSHAN, per, Iz Vysashikh Ucheb Zaved,  
Neft' i Gaz, Vol II, no 8, 1959, pp 109-  
113.

ATS-51M43R  
ATS/RT-2944

Set  
Vol IV, No 11  
Jun 62

199, 278

12 065

Fr-49 US-14

PAVLOVA R. P.

Evaluation of boron content in water from its mineral composition

Evaluation de la teneur en bore de l'eau d'après sa composition minérale

Izv. Vysshikh Uchebn. Zaved., Neft' i Gaz, 2, No. 8,  
p. 126 (1959)

Fr-49: 2785 - French

US-14: RJ-2378. \$ 3.00 - English

E u r a t o m

The Problem of Dynamic Interaction of Cone Bit  
Teeth and Rock, by V. K. Bitsuta,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i  
Gaz, Vol II, No 9, 1959, pp 31-35.

ATS 2301-RJ

Sci - Engr

Sep 60

Dust & Tech

TNT E57 N25 P

124,891

The Design and Arrangement of Nozzles in Jet-Type Bits, by A. K. Kozodoi,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i Gaz, Mol II, No 9, 1959, pp 37-40.

Sci - Engr  
Sep 60

ATS 2300-RJ

*Neft Dntr*  
TN7 E57 N6 356

124,890

The Total Heat Losses in Injection of a Hot Liquid into a Stratum, by L. I. Rubinshtein,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i Gaz, Mol II, No 9, 1959, pp 41-48.

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300830035-6  
ATS 2321-RJ

Sci - Engr  
Sep 60

124,905

Evaporation of the Formation-Heating Process During  
Injection of Hot Fluid, by G. E. Malofeyev,

USSIAN, per, Iz Vysshikh Uchesh Zaved, Neft i Gaz,  
1959, pp 49-55.

ATS 2320-RJ

KCI - Magr

Sep 60

124,904

Isomerization of C<sub>15</sub>-C<sub>18</sub> n-Puraaffinic  
Hydrocarbons, by Ya. M. Paushkin,  
Kn. Ya. Katsobashvili, 7 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved,  
Neft i Gaz, Vol II, No 9, 1959,  
pp 57-62.

AT5-RJ-2397  
ATS-36MEH4OR

Sci  
Mar 62  
MVol IV, No 2

188,891

Bit With Single-Row Cutters Reducing the  
Rotational Speed of Turbo-, Electro-, and  
Rotary Drills, by S. B. Godzhayev,

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Neft i  
Gaz, Vol II, No 9, 1959, pp 117-121.

ATB 2293-RJ

Sci - Engr

Sep 60

124, 886

Evaluation of the Performance of Three-Roller Bits,  
by R. A. Bedalov, 7 pp.

RUSSIAN, per, Iz Vyashikh Ucheb Zaved, Naft' i Gaz,  
Vol II, No 10, 1959, pp 19-25.

ATB-94M1R

ATB/RJ-2745

Sci

190, 261

Apr 62

Vol IV, No 6

|   |   |
|---|---|
| <p>Chernozhukov, N. I. and Rogacheva, L. M.<br/>CATALYTIC UPGRADING OF LUBE OIL DISTILLATES FROM CRUDES OF THE SECOND BAKU.<br/>[1963] 8p<br/>Order from ATS \$10.00                    ATS-69Q73R</p> <p>Trans. of Izv[estiya] Vysshikh Uchebn[ykh]<br/>Zavedenii. Neft' i Gaz (USSR) 1959, v. 2, no. 10,<br/>p. 45-51.</p> <p>DESCRIPTORS: *Oils, *Petroleum Distillation,<br/>Catalysts.</p> <p>(Materials--Lubricants, TT, v. 11, no. 10)</p> | <p>TT-64-12406</p> <p>I. Chernozhukov, N. I.<br/>II. Rogacheva, L. M.<br/>III. ATS-69Q73R<br/>IV. Associated Technical Services, Inc.,<br/>East Orange, N. J.</p> <p>Office of Technical Services</p> |
|---|---|

Wire Communication Channel With Electro-  
magnetic Contacts for Down-Hole Tele-  
metering, by Z. B. El'yashevich,  
Yu. V. Grachev, S. F.

RUSSIAN, per, Iz Vysokikh Ucheb Zaved,  
Neft i Gas, Vol. II, No 10, 1959,  
pp 73-77.

AT&T-6243R  
AT&T-KJ-2869  
199, 265

Sci  
Vol IV, No 11  
Jun 62

# 14

(NY-4324)

Shock Wave Pressure With an Intense Spark  
Discharge in Water, by I. M. Astrakhan, 9 pp.

RUSSIAN, per, Iz Vysshikh Ucheb. Zaved. Neft i Gas,  
No 10, 1959, pp 87-92.

JPRS 5867

Sci - Phys

Oct 60

129,560

Kolpikov, N. P.  
THE RELATION BETWEEN THE RESERVOIR PROPERTIES AND PETROGRAPHIC CHARACTERISTICS OF LOWER CRETACEOUS TERRIGENOUS ROCKS OF THE OZEK-SUAT DISTRICT. [1960] 6p.  
Order from ATS \$9.30                   ATS-60M44R

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii, Neft i Gaz (USSR) 1959, v. 2, no. 11, p. 3-8.

(Earth Sciences--Geology, TT, v. 5, no. 5)

61-12332

- I. Rock--Physical properties  
I. Kolpikov, N. P.  
II. ATS-60M44R  
III. Associated Technical Services, Inc., East Orange, N. J.

ATS/RJ-2727

Office of Technical Services